

Environmental Impact Statement

for the Basing of MV-22 and H-1 Aircraft in Support of III MEF Elements in Hawaii



ABOUT THE H-1



AH-1Z Cobra



AH-1Z Cobra



AH-1Z Cobra

AH-1Z Cobra and UH-1Y Huey

In 1996, the Marine Corps established the H-1 Upgrades Program (AH-1Z/UH-1Y) to replace the UH-1N Huey and AH-1W Super Cobra currently in service. The upgrades include a new four-bladed rotor system, fully integrated state-of-the-art cockpit, and structural upgrades. These provide increased load carrying ability, greater range, and better survivability. Both helicopters also share 84% of the same parts. This parts commonality reduces the costs of maintenance, parts storage, and training for the Marine Corps.

Capabilities

- All-weather and night flying
- Deploy and operate from land and ship bases
- Integrated avionics systems with on-board planning, communications, digital fire control, navigation, and night targeting and weapons systems



UH-1Y Huey

AH-1Z Missions

- Armed escort for airborne and surface forces
- Offensive anti-air warfare
- Reconnaissance
- Tactical Recovery of Aircraft and Personnel (TRAP)
- Forward Air Controller (Airborne) (FACA)
- Rear area security
- Non-combatant Evacuation Operations (NEO)
- Offensive Air Support
 - Close Air Support
 - Deep Air Support

AH-1Z Specifications	
Crew	Pilot, Gunner
Length (fuselage)	45 feet
Length (overall)	58 feet
Height (overall)	14.5 feet
Rotor Diameter	48 feet
Speed	220 knots (max), 155 knots (cruise)
Range (combat load)	125 nautical miles (with 2,500 lb payload)
Weapons Systems	<ul style="list-style-type: none"> • AGM-114 Hellfire missiles – up to 16 total • AIM-9 Sidewinder • 2.75- and 5-inch Rockets • LUU-2A/B nighttime illumination flare • M197 20mm cannon • 77- and 100-gallon external auxiliary fuel tanks

UH-1Y Missions

- Airborne Command and Control (C2)
- Assault transport
- Armed escort
- Reconnaissance
- Medical evacuations (6 litters)
- Close Air Support (CAS)
- Search and Rescue (SAR)
- Tactical Recovery of Aircraft and Personnel (TRAP)
- Forward Air Controller (Airborne) (FACA)
- Non-combatant Evacuation Operations (NEO)

UH-1Y Specifications	
Crew	Pilot, Copilot, Crew Chief, Gunner
Internal Cargo	<ul style="list-style-type: none"> • Up to 10 crashworthy passenger seats • Up to 8 combat-equipped troops • 6 litters (medical evacuation)
External Cargo	Up to 5,000 pounds
Length (fuselage)	44 feet
Length (overall)	58 feet
Height (overall)	17 feet
Rotor Diameter	48 feet
Speed	198 knots (max), 135 knots (cruise)
Range (combat load)	198 nautical miles
Weapons Systems	<ul style="list-style-type: none"> • LAU-61 2.75-inch Rocket Pod (19 rockets) • LAU-68 2.75-inch Rocket Pod (7 rockets) • M240D 7.62mm machine gun • GAU-16 .50-cal machine gun • GAU-17A 7.62mm machine gun • 77-gallon auxiliary fuel tanks